

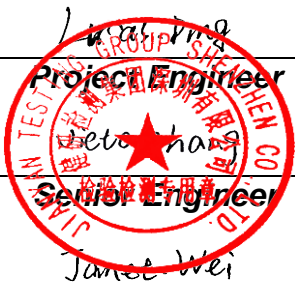


# RF Exposure Evaluation Report

**Report No.:** JYTSZ-R12-2301582  
**Applicant:** Voxx Electronics Corporation  
**Address of Applicant:** 2365 Pontiac Road, Auburn Hills, Michigan 48326 - USA

**Equipment Under Test (EUT)**  
Product Name: AW18  
Model No.: 2421Y  
Trade mark: N/A

**FCC ID:** EZS2421Y  
**Applicable standards:** FCC CFR Title 47 Part 2 (§2.1093)  
**Date of sample receipt:** 16 Nov., 2023  
**Date of Test:** 17 Nov., to 30 Nov., 2023  
**Date of report issue:** 30 Nov., 2023  
**Test Result:** PASS

<b>Project by:</b>	 _____	<b>Date:</b>	_____ 30 Nov., 2023 _____
<b>Reviewed by:</b>	_____	<b>Date:</b>	_____ 30 Nov., 2023 _____
<b>Approved by:</b>	_____ James Wei <b>Manager</b>	<b>Date:</b>	_____ 30 Nov., 2023 _____

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

## 1 Version

Version No.	Date	Description
00	30 Nov., 2023	Original

## 2 Contents

	Page
<b>Cover Page</b> .....	<b>1</b>
<b>1 Version</b> .....	<b>2</b>
<b>2 Contents</b> .....	<b>3</b>
<b>3 General Information</b> .....	<b>4</b>
3.1 Client Information .....	4
3.2 General Description of E.U.T. ....	4
3.3 Operating Modes.....	4
3.4 Additions to, deviations, or exclusions from the method.....	4
3.5 Laboratory Facility .....	4
3.6 Laboratory Location.....	4
<b>4 Technical Requirements Specification</b> .....	<b>5</b>
4.1 Limits .....	5
4.2 Result .....	5
4.3 Conclusion.....	5

### 3 General Information

#### 3.1 Client Information

Applicant:	Voxx Electronics Corporation
Address:	2365 Pontiac Road, Auburn Hills, Michigan 48326 - USA
Manufacturer:	Nutek Coropration
Address:	no. 167, Lane 235, Bauchiau Rd, Xindian District, New Taipei City 23145, Taiwan
Factory:	Voxx Automotive Corporation
Address:	2351 J. Lawson Blvd, Orlando, FL 32824 - USA

#### 3.2 General Description of E.U.T.

Product Name:	AW18
Model No.:	2421Y
Operation Frequency:	BLE: 2402MHz~2480MHz
Modulation technology:	BLE: GFSK
Antenna Type:	Inverted-F Antenna
Antenna gain:	BLE: 1.443 dBi (declare by Applicant)
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

#### 3.3 Operating Modes

Operating mode	Detail description
BLE mode	Keep the EUT in continuously transmitting in BLE mode

#### 3.4 Additions to, deviations, or exclusions from the method

No
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#### 3.5 Laboratory Facility

<p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none"> <li>● <b>FCC - Designation No.: CN1211</b> JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.</li> <li>● <b>ISED – CAB identifier.: CN0021</b> The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.</li> <li>● <b>CNAS - Registration No.: CNAS L15527</b> JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.</li> <li>● <b>A2LA - Registration No.: 4346.01</b> This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <a href="https://portal.a2la.org/scopepdf/4346-01.pdf">https://portal.a2la.org/scopepdf/4346-01.pdf</a></li> </ul>
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#### 3.6 Laboratory Location

<p>JianYan Testing Group Shenzhen Co., Ltd. Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China. Tel: +86-755-23118282, Fax: +86-755-23116366 Email: info-JYTee@lets.com, Website: <a href="http://jyt.lets.com">http://jyt.lets.com</a></p>
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## 4 Technical Requirements Specification

### 4.1 Limits

According to 447498 D01 General RF Exposure Guidance v06 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, where

- $f(\text{GHz})$  is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

### 4.2 Result

Worse case for BLE as below:

[2442MHz: -1.357dBm (0.73 mW) output power]

$(0.73 \text{ mW} / 5\text{mm}) \cdot [\sqrt{2.442(\text{GHz})}] = 0.228 < 3.0$  for 1-g SAR

### 4.3 Conclusion

The device is exempt from the SAR test and satisfies RF exposure evaluation.

-----End of report-----